



DIAMOND HARBOUR WOMEN'S UNIVERSITY
M.A./M.Sc. 3rd SEMESTER EXAMINATION 2023

Subject: Geography

Paper: GEO/CC/TH/301

HISTORICAL & POLITICAL GEOGRAPHY

Time: 2 hrs

Full Marks: 40

The figures in the margin indicate full marks.

Answer any four questions selecting one from each Group.

Unit-I: Historical Geography-Conceptual Issues

1. Define historical geography. Briefly explain the evolution of historical geography as a discipline. Write down the role of old maps as a source material of historical geography. 2+5+3
2. Elaborate the important issues discoursed in historical geography. Illuminate on the recent trends in historical geography. 5+5

Unit-II: Historical Geography of India

3. Classify Janapadas of ancient India (Bharatavarsa) according to the Puranas. Give a detailed account of the Janapadas of central region enscripted in the Puranas. 3+7
4. Discuss Hiuen Tsang's view on socio-economic and cultural condition of India during the rule of emperor Harsha Vardhana. 10

Unit-III: Political Geography-Conceptual Issues

5. Discuss the concept of State, Nation & Nation -State in details. Differentiate between boundaries and frontiers. 7+3
6. Analyse North - South divide in global context. Is the Brandt line still relevant? What are the main issues of dispute in the South China sea? 6+2+2

Unit-IV: Issues in Political Geography and the Indian Polity

7. What do you mean by enclave? Critically analyse the Indo-Bangladesh border issues and highlight the recent developments. 3+5+2
8. State the salient features of Inter-State River Water Disputes (Amendment) Bill, 2019. Discuss how the Inter-State river water disputes resolution has been successful in streamlining the issues concerning the rivers of southern India. 4+6



DIAMOND HARBOUR WOMEN'S UNIVERSITY
M.A./M.Sc. 3rd SEMESTER EXAMINATION 2023

Subject: Geography

Paper: GEO/CC/TH/302

REGIONAL PLANNING & DEVELOPMENT

Time: 2 hrs

Full Marks: 40

The figures in the margin indicate full marks.

Answer any four questions selecting one from each Group.

Unit-I: Regional Planning: Concepts

1. Define planning region. Elaborate various approaches in general and methods of regionalisation in the context of planning and regional development in India. 3+7
2. Explain the structure and objectives of multi-level planning in India. What is a 'global city'? 8+2

Unit-II: Regional Planning and Development

3. Discuss the social indicators of development of a region. What are the key challenges of integrated regional development in India? 6+4
4. Critically explain the Cumulative Causation Model as proposed by Myrdal. What do you mean by economic region? 8+2

Unit-III: Strategies of Regional Development and Zonal Planning

5. Discuss the criteria suggested by various committees for the identification of Backward regions? Write a short note on 'Backward Region Grant Fund'. 7+3
6. Critically analyze the role of SEZ in the post globalized economy of India. Write briefly about the Falta Special Economic Zone (FSEZ). 6+4

Unit-IV: Regional Planning in India

7. Specify the core strategy behind the Aspirational District Programme (ADP). What are the key sectors and associated indicators under ADP for the transformation of the selected districts? 3+7
8. Discuss with suitable examples, the role of NITI Ayog in encouraging cooperative federalism. Analyse how the Developmental Financial Institutions have regained relevance in present context. 5+5



DIAMOND HARBOUR WOMEN'S UNIVERSITY
M.A./ M. Sc. 3rd SEMESTER EXAMINATION 2023

SUBJECT: GEOGRAPHY

PAPER: GEO/CC/PR/303

STATISTICAL TECHNIQUES [PRACTICAL]

Time: 3 hrs.

Full Marks: 40

The figures in the margin indicate full marks

Answer all questions from each group

Unit-I: Probability, Sampling and Test of Confidence

1. Table represents two teams ('we' and 'they') having different number of cards. Answer the following questions.

- a) What is the probability that a card randomly selected from the 'we' team's hand is a spade?
b) What is the probability that a card randomly selected from the 'they' team's hand is a club?
c) What is the probability that a card randomly selected from all (we and they) is either a spade or heart? 2+2+2

Suits	Team 1 (We)	Team 2 (They)
Spades	6	7
Hearts	8	5
Diamonds	4	9
Clubs	8	5

- d) What is 'sampling error'? 2
2. a) What is interval scale? 2
b) Calculate rank correlation coefficient from the following data: 4

Theory Paper Marks	80	56	50	48	50	62	60
Corresponding Practical Paper Marks	90	75	75	65	65	50	65



Unit-II: Correlations and Statistical inferences

3. Find Chi-square from the following information:

5

Condition of child	Condition of home		Total
	Clean	Dirty	
Clean	70	50	120
Fairly clean	80	20	100
Dirty	35	45	80
Total	185	115	300

State whether the two attributes viz., condition of home and condition of child are independent.

4

4. a) Calculate the 1st centroid factor from the following data and interpret.

Age	1						
Income	.327	1					
Gender	-.087	-.198	1				
working status	.010	-.137	.605	1			
Living status	.086	-.193	.078	.101	1		
financial crunch	.004	-.134	-.125	-.232	.345	1	
Feel Isolated	.107	-.241	.249	.200	.151	.004	1

b) What do you understand by Eigen Value?

2

Unit-III: Computer Application in Data Processing and Representation

5. What do you mean by data inventory? Prepare a suitable diagram to represent the following climatic data.

3+7

Table: Monthly average rainfall and Maximum temperature of Gaighata Block, North 24 Parganas.

	January	February	March	April	May	June	July	August	September	October	November	December
Temperature (°C)	30	34	37	39	35	32	36	35	34	32	31	31
Precipitation / Rainfall (mm)	0	1.4	39	25.4	115.1	210.1	374.4	351.4	318.4	372.5	32.6	0

6. Calculate the decadal growth rate of population and represent with suitable diagram.

5

Table: The population distribution of Nadia district for the last six decade.

Year	1951	1961	1971	1981	1991	2001	2011
Population	1144924	1713324	2230270	2964253	3852097	4604827	5167600

M.A/M.Sc. (2nd Year) 3rd Semester Examination - 2023

Subject: Geography

Module - 305

Paper Code: GEO/OE/TH/305

Environmental Science



Time: 2 hours

Full marks: 40

(Answer any four questions selecting one from each unit)

Unit-I: Basic Concepts of Environmental Science

1. What is 'environmental science'? Enumerate the scope and content of environmental science in the context of contemporary society and environment. 3+7
2. What is 'environmental ethics'? Elaborate various approaches to environmental science addressing man-environment relationship. 3+7

Unit-II: Ecology and Ecosystem

3. Discuss various models of population growth. What is meant by limiting resource? Which factors affect the carrying capacity of a habitat? 6+2+2
4. Explicate trophic structure. Classify ecological pyramids. Explain landscape sustainability. 2+3+5

Unit-III: Environmental Geosciences

5. Define fluvial process. Discuss the four processes of fluvial erosion. Give a detailed account of the fluvial erosional landforms. 2+3+5
6. Write a note on continental drift theory. Briefly describe the evidences of continental drift theory suggested by Alfred Wegener. 3+7

Unit-IV: Environmental Hazards, Disasters and Risk

7. What is meant by pollution? Discuss the various types of natural hazards with examples. 2+8
8. What is meant by physical vulnerability? Discuss the role of civil society in disaster risk reduction with examples? 4+6